SPRINGS QUADRANGLE SODA BANCROFT QUADRANGLE (Oriel, this report) (Armstrong, 1969) NEAR EIGHTMILE CREEK FACIES IN EGBERT CANYON AREA FACIES IN NELSON CREEK AREA Sec. 12, T.10S., R.38E., and Sec. 7, T.10S., R. 39 E. Sec. 4, T.II S., R.42E. Sec. 22, T.10S., R.41 E. Sec. 20, T.9 S., R.41 E. BLOOMINGTON FORMATION **BLOOMINGTON FORMATION** Green; scattered thin laminae; tan to brown silt Olive - drab, finely micaceous Tan, micaceous; gray intraformational limestone conglomerate Medium- to dark-gray, finely crystalline; tan and sparse red silty partings Dark-gray; weathers medium gray; finely crystalline; Light-medium-to pale-blue gray; weathers dull brown Dark-gray; finely crystalline; tan silty streaks and partings beds 6-18in. thick; tan silty partings and streaks Dark- to dark-medium-gray; weathers dark-blue gray Dark- and medium-gray; finely crystalline; tan silty partings and Medium- and dark-gray, blotchy; beds 6-24 in. thick streaks; red colors sparse Medium- and dark-gray, blotchy, finely crystalline; beds irregular; Light- and dark-gray in thin laminae tan silty partings BLACKSMITH Dark-gray; weathers medium gray; finely crystalline; Yellow and brown silty lamine; beds 1-6in. thick beds 4-24 in thick; light-gray silty partings and streaks BLACKSMITH Medium- and dark-gray; tan and some reddish-tan silty partings and streaks; beds 2-24 in.thick Medium- to dark-gray, finely crystalline; beds 1-24in. thick; tan silty partings Dark-medium to dark-gray; yellow, pink, and red silty mottles Light-to medium-gray Medium-tannish-gray, blotchy; medium-crystalline Medium- to dark-gray, finely crystalline Pinkish-buff, buff, and cream-colored; massive cliffs LIMESTONE beds indistinct, as much as 8 ft thick Medium- and dark-gray; weathers blotchy medium gray and tan; Light-gray to very dark gray; beds 3 in. to 3ft thick same interbedded dark gray finely crystalline; beds 2-8 in. thick Medium-gray, blotchy; beds indistinct, from 4 in. to 4 ft thick Buff, cream, pink, and light-gray; beds tens of feet thick LIMESTONE Light-tannish-gray; beds I-2 in. thick; tan silty partings Dark-gray, finely crystalline; beds 6-18 in thick Medium-to dark-gray, finely crystalline Medium-gray to very light gray; weathers medium gray to dark medium gray; ledges tens of feet thick Dark-gray, finely crystalline; some medium gray and dark gray, Bathyuriscus - Elrathina zone ____ blotchy, medium crystalline; beds 2 - 2 1/2 ft thick Medium- and dark-gray, blotchy Medium- and dark-gray; weathers blotchy medium gray and tan; beds 4-12 in. thick; tan silty partings. Medium-gray; very finely crystalline; crudely laminated and Dark-gray, finely crystalline; locally brecciated very thin bedded Weathers pinkish and tan BANCROFT Medium- and dark-gray; weathers blotchy medium and tannish gray Medium-gray; weathers tan and some olive tan; finely crystalline; Tan, pink, and some red; beds 1-6 in thick with a few 12 in thick; tan and red on bedding planes UTE beds 1 to I in. thick Dark and medium-gray; weathers pinkish tan Dark-medium-gray; weathers light gray
Green claystone with very finely crystalline limestone concretions Medium- to light-gray; beds 2-18in. thick LIMESTONE Bathyuriscus-Elrathina zone Tan micaceous chips Medium-gray, oolitic; tan silty partings; thin bedded LIMESTONE and interbeds of colitic and intraformational conglomeratic lime-Medium-gray; some pinkish gray; weathers into small pieces Medium-to dark-gray, finely crystalline; tan and pink silty partings Micaceous thin-bedded argillite; scattered limestone concretions stone Pinkish-red; weathers pinkish brown; medium to finely crystalline Blotchy limestone beds 2-6 in. thick Pink and reddish-brown, micaceous, sandy, thin-bedded; white at top Tan, pink, and red; beds 2 ft thick Light-gray; very finely crystalline Thin red and green quartzitic sandstone White; to light-gray; weathers light grayish tan; beds 2-24 in thick Medium-gray, finely crystalline, thin bedded Dark- to medium- gray, finely crystalline; beds I - 2 ft thick White; weathers tan; coarsely crystalline; beds indistinct, Pink, red, and tan silty partings 2 - 6 ft thick Bathyuriscus - Elrathina zone LANGSTON Tan, coarsely colitic; tan micaceous shale and siltstone in tan soil Greenish-tan, thin-bedded, calcareous, fine-grained Green; thinly and evenly laminated; minute mica flakes Dark-gray, finely crystalline Tan micaceous siltstone chips; dark-gray finely crystalline limestone Phyllitic, thin-bedded, micaceous Medium-gray; weathers tan and medium tannish gray; medium Dark-gray, finely crystalline to finely crystalline FORMATION Tan, brecciated LEAD White; weathers tan; coarsely crystalline; beds indistinct, Tan and red; some dark gray finely crystalline; olive-drab micaceous shale 2-6 ft thick Green; thin quartzitic sandstone Light-gray; weathers light grayish tan; finely crystalline; beds 2 [±] ft thick Medium-purplish-brownish-gray; weathers medium to dark brownish gray Brown, reddish-gray, and green; some hematite cement; micaceous Dark-gray, finely crystalline; interbedded sparsely with tan, pink, BELL and pinkish medium gray Medium- to dark-gray; weathers medium to dark bluish gray; finely crystalline; beds irregular, 1-4 in. thick and sandy layers 0 1 0 Light-grayish-tan; weathers tan; fine grained; sandy; slightly White quartzite with Scolithus
White; single pebble-conglomerate layers SHALE Olive-tan, olive-green, and tan, micaceous; becomes more fissile downward Tan with olive-drab cast, fine-grained, micaceous, thinbedded; poorly exposed White; beds 2 ft thick Black, fissile; few beds of finely crystalline limestone beds 6 in. thick Black; weathers medium gray; finely crystalline; Albertella zone White, red, brown, and gray in about equal amounts Medium-yellowish-brown; fine to very fine grained; micaceous, calcareous, quartzitic Tan, tannish-gray, and greenish-tan fine-grained quartzite; same White quartzite with occasional isolated quartzite pebbles; small Tannish-gray, fine-grained, calcareous, sandy, thin-bedded float pieces are red, tan, and gray sandy quartzite interbeds Red; very fine grained micaceous; some slightly calcareaus Girvanella-bearing Thin-bedded red sandy ferruginous quartzite; white quartzite; gray pebble conglomerate limestone Medium-gray; some tan weathering Olive-tan, micaceous, sandy Dark-red QUARTZITE member Green; weathers mottled green and brown TWIN Tan and grayish-tan, fine-grained Green claystone Purplish -brown, gritty Yellow-brown, limanitic, fine-grained Green claystone Arkosic; contains altered feldspar member Tan: weathers brown KNOBS More tan, less purple Purplish, gritty Limestone; weathers to medium gray and to light brown Brown sandstone Dark-gray to brownish-green ب المراجات FORMATION and limestone Purplish-brown, brown, and pink pebble-and-grit conglomerate; Dark-greenish-brown beds 2-4ft thick member Yellow-brown earthy sandstone; medium-gray limestone Tan to green Sedgwick Pale-gray to greenish-tan Peak Olenellus zone Quartzite Green to tan, some pink; very fine- to fine-grained EXPLANATION Member Buff, tan, brown, greenish-tan, fine-grained Pale-green, greenish-tan, tan, light-gray; phyllitic with coarse mica; thin interbeds of pink and tan quartzite FEET BRIGHAM Quartzite conglomerate Silty limestone Pale-tan, medium-grained Windy Green, gray, tan, brown; phyllitic with coarse and medium mica; ripple marks and sole marks Gray to green; weathers dark brown; fine to medium grained Pass Quartzite Argillaceous limestone Flesh-colored; weathers tan to brown Argillite Sandstone Oolitic limestone Some grading of tan to green medium-grained quartzite through very fine grained quartzite to black or green phyllite Member 500 Green argillite and phyllite; some gray with tan liesegang bands Siltstone Girvanella limestone QUARTZITE Flesh-colored; weathers medium brown Sandy claystone Brecciated limestone Very light gray; weathers dark brown; very fine to medium grained; Kasiska medium to massively bedded Dolomite, thin-bedded Claystone, tan, green, or light-gray 1000 Quartzite GREAT SALT Dolomite, thick-bedded Claystone, dark-gray or black Light-brown; weathers dark brown; greenish-brown argillite LAKE Light-buff Member Limestone, thin-to medium-bedded Sandy dolomite Limestone, thick-bedded Concealed or generalized 1500 Sandy limestone Limestone lens